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PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

10/608,907

Confirmation No.: 2201

Applicant:

Sommadossi et al.

Filed:

June 27, 2003

TC/A.AU.:

Unassigned

Examiner:

Unassigned

Docket No.:

06171.105034 IDX 1018

Customer No.:

20786

Title:

Modified 2' and 3'-Nucleoside Prodrugs for Treating Flaviviridae Infections

Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450

## Transmittal of Supplemental Information Disclosure Statement

Sir:

Pursuant to the duty of disclosure under 37 CFR §§ 1.56, 1.97 and 1.98, Applicants cite the publications listed on the accompanying PTO-1449. Additionally, Applicants enclose a copy of the International Search Report corresponding to PCT/IB 03/03246 as well as copies of the cited references. The citation of this information does not constitute an admission of priority or that any cited item is available as a reference, or a waiver of any right the applicant may have under the applicable statutes, Rules of Practice in patent cases, or otherwise. Applicant respectfully requests that the listed documents be made of record in the present case, and that the Examiner initial the appropriate spaces on the accompanying form 1449 to indicate the same.

If the Examiner determines a fee is required, the Commissioner is authorized to charge any requisite fees associated with this paper to Deposit Account No. 11-0980.

Respectfully submitted,

Susanne Hollinger Reg. No. 51,811

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on September 30, 2004

Susanne Hollinger

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Sheet	1	of	2	Attorney Docket Number	06171.105084 IDX 1018		

U.S. PATENT DOCUMENTS									
Examiner Initials *	Cite No. 1	U.S. Patent De Number	ocument Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pgs, Clmns, Lns, Where Relevant Passages/Relevant Figs Appear			

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		Fo	reign Patent Do	cument	Name of Patentee or	Date of	B 61 11 11	
Examiner Initials *	Cite No. 1	Office		Kind Code <sup>2 2</sup> (if known)	Applicant of Cited  Document	Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, W Relevant Passages/Relev Figures Appear	
	AA	FR	1521076		Merck, & Co.	04-12-1968		
	AB	ЛР	06211890		Yamasa Shoyu Co. Ltd.	08-02-1994		
	AC	JР	06228186		Yamasa Shoyu Co. Ltd.	08-16-1994		
	AD	wo	01/90121		Novirio Pharmaceuticals Ltd.	11-29-2001		
	AE	WO	01/92282		Novirio Pharmaceuticals Ltd.	12-06-2001		
	AF	wo	01/60315		Biochem Pharma Inc.	08-23-2001		
	AG	WO	03/105770		Bhat Balkrishen	12-24-2003		
					ON PATENT LITERATUR			
Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					T <sup>6</sup>	
	АН	BIANCO, et al., "Synthesis of a New Carbocyclic Nucleoside Analog" Tetrahedron Letters, vol. 38., no. 36., Set 8, 1997						
AI CHIACCHIO, et al., "Stereoselective Synthesis of 2'-Amino-2',3'-dideoxynucleosides by Nit 1,3-Dipolar Cycloaddition: A New Efficient Entry Toward d4T and ilts 2-Methyl Analogue" J. Chem., vol. 64, 1999, pp. 28-36  AJ CZERNECKI, et al., "Synthesis of 2'-Deoxy-2'-Spirocyclopropyl Cytidine as Potential inhibite Ribonucleotide Diphosphate Reductase" Can J. Chem, vol. 71, 1993, 413-416								
						Potential inhibitor of		
	AK HASSAN, et al., "Nucleosides and Nucleotides. 156. Chelation-Controlled and Nonchelation-Controlled Diastereofacial Selective Thiophenol Addition Reactions at the 2'Position of 2'-[(Alkoxycarbonyl)methylene]-2'-deoxyuridines: Conversion of (Z)-2'-[(Alkoxycarbonyl)methylene]-2'-Deoxyuridines into Their (E)-Isomers <sup>1</sup> " J. Org. Chem., vol. 62, 1997, pp 11-17							

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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet 2 of 2				Attorney Docket Number	06171.105084 IDX 1018			

<del></del>		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	г —
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	BA	HASSAN, et al., "Nucleosides and Nucleotides. 151. Conversion of (Z)-2"-(Cyanomethylene)-2'-Deoxyuridines into Their (E)-Isomers via Addition of Thiophenol to the Cyanomethylene Moiety Followed by Oxidative Syn-Elimination Reactions <sup>1</sup> " J. Org Chem., vol. 61, 1996, pp. 6261-6267	
	BB	HOSSAIN, et al., "Synthesis of 2'-and3"-Spiro-Isoxazolidine Derivatives of Thymidine & Their Conversions to 2',3'-Dideoxy-2',3'-Didehydro-3'-C-Substituted Nucleosides by Radical Promoted Fragmentation" Tetrahedron, vol. 49, no. 44, 1993, pp. 10133-156	
	BC	MAHMOUDIAN, M. et al., "A Versatile Procedure for the Generation of Nucleoside 5'-Carboxylic Acids Using Nucleoside Oxidase" Tetrahedron, vol. 54, no. 28, 9 July 1998	
	BD	VELAZQUEZ, et al., "Synthesis of [1-[3',5'-Bis-O-(tert-butyldimethylsilyl)-β-D-arabino- and β-Dribofuranosyl]cytosine]-2'-spiro-5"-(4"-amino-1",2"-oxathiole-2",2"-dioxide). Analogues of the Highly Specific Anti-HIV-1 Agent TSAO-T" Tetrahedron, vol. 50, 1994, pp. 11013-22	
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Examiner Signature	 	Date Considered	 

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